

PATENT ABSTRACTS OF JAPAN

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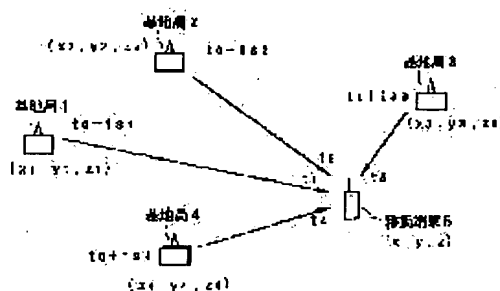
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(54) POSITION MEASURING SYSTEM

(57)Abstract:

PURPOSE: To find a position of a moving terminal by subtracting a difference of a transmitting time previously determined at every base station from the same series of a spectrum divergence signal which a plurality of the base stations transmit and obtaining a propagation delay time difference of the spectrum divergence signal.

CONSTITUTION: Distances of each base station 1-4 to a moving terminal 5 is found by multiplying propagation times of the base stations 1-4 to the moving terminal 5 by light velocity. Here the unknowns are 7 including a coordinate (x, y, z) of the terminal 5 and the propagation time of the base station 1-4 to the moving terminal 5. The moving terminal 5 measures time differences wherein PN(pseudo-noise) signals of the base stations 1-4 come to the moving terminal 5, for instance, one base station 1 is made a standard, and the time differences at the time of receiving of the PN signals from the base stations 2, 3, 4 can be obtained. The distances between the base stations 1-4 and the moving terminal, the time difference at the time of receiving of the PN signals from the base stations 1-4 are found and thereby 7 solutions can be obtained in the unknowns and the position of the moving terminal 5 can be judged.



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